**Conceptual Schema of Clinical Doctor System**

**By**

**Kamran Jalil 19pwcse1751**

**Usman Yaqoob 19pwcse1754**

**Muhammad Umar 19pwcse1758**

**Entity Description**

DEPARTMENTS Place specified for the specific diseases/Disorders/Health Issues.

For Example: For Neurology Department, ENT Department, Cardiology Department etc.

DOCTOR A person that diagnoses, treats and prescribe medicines to patient.

Patient Person who visits doctor for the treatment of any disease or health problem.

Medical Assistant A person who assists the doctor and is Employed by the department.

Nursing Staff Includes person that manage the patient and helps doctor in the treatment, also take care of patient in special units and wards.

Medicines Chemical Compounds/drugs that can treat diseases and improve your health which are prescribes buy a doctor.

Pharmacy A place where patients can buy medicines prescribed by the doctor.

Wards/Units Special Care units for different care level patients for example: ICU, Surgery Ward.

**Business Rules**

1. A Doctor can have at least one assistant or Many assistants and one assistant will assist one and only one Doctor.
2. A doctor can treat many nor no patients at all but a patient can be treated by at least one or many doctors.
3. A doctor can be from one and only one department and one department can have many doctors but at least one.
4. A department can have many nurses but at least one and a nurse can work in one and only one department.
5. A Department can have many wards/units but at least one and a ward/unit can belong to one or only one department.
6. A patient can have many medicines or no medicine in his prescription and one medicine can be prescribed to many patients or no one.
7. A doctor can perform duty in many or no ward and a ward can have many doctors or at least one doctor.
8. A Doctor can Prescribe many or no medicines and a medicine can be prescribed by many or at least doctor.
9. A medicine can be stocked by many or at least one pharmacy and a Pharmacy can stock at least one medicine or many medicine.
10. A Patient can buy no medicine or many medicines and a pharmacy can sell no medicine or many medicines.
11. A ward can have at least one doctor or many doctors.